BRAGG — LIGHT DATA — May 2009

Date	BMT	SR	SS	EET	MR	MS	MAX ELEV. ANGLE OVER TIME (Local) - in degrees																																	
	(UTC)	(UTC)	(UTC)	(UTC)	(UTC)	(UTC)	1600	1630	1700	1730	1800	1830	1900	1930	2000	2030	2100	2130	2200	2230	2300	2330	0030	0100	0130	0200	0230	0300	0330	0400	0430	0500	0530	0600	0630	0700	0730	0800	0830	0900	(0000,2359)
1-May	0524	0624	2002	2102	1232	0157	39.0	45	51	56	61	66	69	70	70	67	63	58	53	47	41	36	24	18	12	6	0	-6	-11	-16	-21	-26	-30	-34	-37	-40	-41	-42	-42	-41	42
LUNAR ILLUMINATION % OVER TIME							50	50	50	50	51	51	51	51	52	52	52	52	53	53	53	53	54	54	54	54	55	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2-May	0523	0623	2003	2103	1341	0234	39	45	51	56	61	66	69	70	70	67	63	58	53	47	41	36	24	18	12	6	0	-6	-11	-16	-21	-26	-30	-34	-37	-40	-41	-42	-42	-41	54
LUNAR ILLUMINATION % OVER TIME							50	50	50	50	51	51	51	51	52	52	52	52	53	53	53	53	54	54	54	54	55	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3-May	0522	0622	2004	2104	1447	0306	39	45	51	56	61	66	69	70	70	67	63	58	53	47	41	36	24	18	12	6	0	-6	-11	-16	-21	-26	-30	-34	-37	-40	-41	-42	-42	-41	65
LUNAR ILLUMINATION % OVER TIME							50	50	50	50	51	51	51	51	52	52	52	52	53	53	53	53	54	54	54	54	55	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4-May	0521	0621	2005	2105	1552	0334	26	32	38	43	49	54	58	62	64	65	64	61	57	52	47	42	30	24	18	12	6	1	-6	-11	-17	-22	-27	-32	-37	-41	-44	-46	-48	-48	75
LUNAR ILLUMINATION % OVER TIME							61	61	61	62	62	62	62	63	63	63	63	63	64	64	64	64	65	65	65	65	66	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
5-May	0519	0620	2005	2106	1655	0402	26	32	38	43	49	54	58	62	64	65	64	61	57	52	47	42	30	24	18	12	6	1	-6	-11	-17	-22	-27	-32	-37	-41	-44	-46	-48	-48	83
LUNAR ILLUMINATION % OVER TIME							61	61	61	62	62	62	62	63	63	63	63	63	64	64	64	64	65	65	65	65	66	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6-May	0518	0619	2006	2107	1758	0430	26	32	38	43	49	54	58	62	64	65	64	61	57	52	47	42	30	24	18	12	6	1	-6	-11	-17	-22	-27	-32	-37	-41	-44	-46	-48	-48	90
LUNAR ILLUMINATION % OVER TIME							61	61	61	62	62	62	62	63	63	63	63	63	64	64	64	64	65	65	65	65	66	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7-May	0517	0618	2007	2108	1901	0500	13	19	25	31	36	42	46	51	54	57	58	58	57	54	50	46	35	30	24	18	12	6	1	-6	-12	-18	-23	-29	-34	-39	-44	-47	-51	-53	96
LUNAR ILLUMINATION % OVER TIME							71	72	72	72	72	72	73	73	73	73	73	74	74	74	74	74	75	75	75	75	76	76	76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8-May	0516	0617	2008	2109	2004	0532	13	19	25	31	36	42	46	51	54	57	58	58	57	54	50	46	35	30	24	18	12	6	1	-6	-12	-18	-23	-29	-34	-39	-44	-47	-51	-53	99
LUNAR ILLUMINATION % OVER TIME							71	72	72	72	72	72	73	73	73	73	73	74	74	74	74	74	75	75	75	75	76	76	76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9-May	0515	0616	2009	2110	2105	0609	13	19	25	31	36	42	46	51	54	57	58	58	57	54	50	46	35	30	24	18	12	6	1	-6	-12	-18	-23	-29	-34	-39	-44	-47	-51	-53	0
LUNAR ILLUMINATION % OVER TIME							71	72	72	72	72	72	73	73	73	73	73	74	74	74	74	74	75	75	75	75	76	76	76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10-May	0514	0615	2010	2111	2203	0651	1	7	13	18	24	29	34	39	43	47	50	52	52	51	50	47	35	30	24	18	12	6	1	-6	-12	-18	-23	-29	-34	-39	-44	-47	-51	-53	99
LUNAR ILLUMINATION % OVER TIME							81	81	81	81	81	82	82	82	82	82	82	83	83	83	83	83	75	75	75	75	76	76	76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11-May	0513	0615	2010	2112	2256	0738	1	7	13	18	24	29	34	39	43	47	50	52	52	51	50	47	35	30	24	18	12	6	1	-6	-12	-18	-23	-29	-34	-39	-44	-47	-51	-53	96
LUNAR ILLUMINATION % OVER TIME							81	81	81	81	81	82	82	82	82	82	82	83	83	83	83	83	75	75	75	75	76	76	76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
12-May	0512	0614	2011	2113	2343	0831	1	7	13	18	24	29	34	39	43	47	50	52	52	51	50	47	35	30	24	18	12	6	1	-6	-12	-18	-23	-29	-34	-39	-44	-47	-51	-53	91
LUNAR ILLUMINATION % OVER TIME							81	81	81	81	81	82	82	82	82	82	82	83	83	83	83	83	75	75	75	75	76	76	76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
13-May	0511	0613	2012	2114	No Ev	0926	1	7	13	18	24	29	34	39	43	47	50	52	52	51	50	47	40	36	32	27	22	16	11	5	-1	-7	-13	-19	-25	-31	-36	-42	-47	-53	86
LUNAR ILLUMINATION % OVER TIME							81	81	81	81	81	82	82	82	82	82	82	83	83	83	83	83	91	91	91	91	91	91	91	91	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
14-May	0510	0612	2013	2115	0024	1024	1	7	13	18	24	29	34	39	43	47	50	52	52	51	50	47	40	36	32	27	22	16	11	5	-1	-7	-13	-19	-25	-31	-36	-42	-47	-53	78
LUNAR ILLUMINATION % OVER TIME							81	81	81	81	81	82	82	82	82	82	82	83	83	83	83	83	91	91	91	91	91	91	91	91	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
15-May	0509	0611	2014	2116	0059	1123	1	7	13	18	24	29	34	39	43	47	50	52	52	51	50	47	40	36	32	27	22	16	11	5	-1	-7	-13	-19	-25	-31	-36	-42	-47	-53	70
LUNAR ILLUMINATION % OVER TIME							81	81	81	81	81	82	82	82	82	82	82	83	83	83	83	83	91	91	91	91	91	91	91	91	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
16-May	0508	0611	2014	2117	0129	1221	-24	-18	-12	-6	0	5	11	16	21	25	30	33	36	39	40	40	39	36	33	29	25	20	16	10	5	-1	-7	-12	-18	-24	-30	-36	-42	-48	61
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	95	95	95	95	95	95	95	95	95	95	95	96	96	96	96	96	96	96	96	96	96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
17-May	0507	0610	2015	2118	0157	1319	-24	-18	-12	-6	0	5	11	16	21	25	30	33	36	39	40	40	39	36	33	29	25	20	16	10	5	-1	-7	-12	-18	-24	-30	-36	-42	-48	52
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	95	95	95	95	95	95	95	95	95	95	95	96	96	96	96	96	96	96	96	96	96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
18-May	0506	0609	2016	2119	0223	1418	-24	-18	-12	-6	0	5	11	16	21	25	30	33	36	39	40	40	39	36	33	29	25	20	16	10	5	-1	-7	-12	-18	-24	-30	-36	-42	-48	42
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	95	95	95	95	95	95	95	95	95	95	95	96	96	96	96	96	96	96	96	96	96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
19-May	0505	0608	2017	2120	0249	1518	-35	-30	-24	-18	-12	-7	-1	4	10	14	19	23	27	30	33	35	36	35	33	31	27	24	20	15	10	5	0	-6	-12	-17	-23	-29	-35	-41	32
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	98	98	98	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
20-May	0504	0608	2017	2121	0316	1621	-35	-30	-24	-18	-12	-7	-1	4	10	14	19	23	27	30	33	35	36	35	33	31	27	24	20	15	10	5	0	-6	-12	-17	-23	-29	-35	-41	23
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	98	98	98	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
21-May	0503	0607	2018	2122	0345	1727	-35	-30	-24	-18	-12	-7	-1	4	10	14	19	23	27	30	33	35	36	35	33	31	27	24	20	15	10	5	0	-6	-12	-17	-23	-29	-35	-41	14
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	98	98	98	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
22-May	0503	0607	2019	2123	0419	1838	-35	-30	-24	-18	-12	-7	-1	4	10	14	19	23	27	30	33	35	36	35	33	31	27	24	20	15	10	5	0	-6	-12	-17	-23	-29	-35	-41	8
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	98	98	98	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
23-May	0502	0606	2020	2124	0459	1950	-47	-41	-35	-29	-24	-18	-12	-7	-2	4	9	13	18	21	25	28	31	32	31	30	29	26	23	19	15	11	6	1	-5	-10	-16	-21	-27	-33	3
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	N/A	N/A	N/A	N/A	N/A	N/A	
24-May	0501	0606	2020	2125	0547	2102	-47	-41	-35	-29	-24	-18	-12	-7	-2	4	9	13	18	21	25	28	31	32	31	30	29	26	23	19	15	11	6	1	-5	-10	-16	-21	-27	-33	0
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	N/A	N/A	N/A	N/A	N/A	N/A	
25-May	0501	0605	2021	2126	0646	2209	-47	-41	-35	-29	-24	-18	-12	-7	-2	4	9	13	18	21	25	28	31	32	31	30	29	26	23	19	15	11	6	1	-5	-10	-16	-21	-27	-33	1
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	N/A	N/A	N/A	N/A	N/A	N/A	
26-May	0500	0604	2022	2127	0753	2306	-58	-52	-46	-41	-35	-29	-23	-18	-12	-7	-2	3	8	12	17	20	26	28	29	29	29	27	25	23	20	16	12	7	3	-2	-8	-13	-18	-24	4
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	99	99	99	99	99	99	99	99	99	99	99	99	99	98	98	98	98	98	N/A	N/A	N/A	N/A	N/A	
27-May	0459	0604	2022	2127	0906	2354	-58	-52	-46	-41	-35	-29	-23	-18	-12	-7	-2	3	8	12	17	20	26	28	29	29	29	27	25	23	20	16	12	7	3	-2	-8	-13	-18	-24	10
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	99	99	99	99	99	99	99	99	99	99	99	99	99	98	98	98	98	98	N/A	N/A	N/A	N/A	N/A	
28-May	0459	0604	2023	2128	1020	No Ev	-58	-52	-46	-41	-35	-29	-23	-18	-12	-7	-2	3	8	12	17	20	26	28	29	29	29	27	25	23	20	16	12	7	3	-2	-8	-13	-18	-24	18
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	99	99	99	99	99	99	99	99	99	99	99	99	99	98	98	98	98	98	N/A	N/A	N/A	N/A	N/A	
29-May	0458	0603	2024	2129	1132	0034	-69	-63	-57	-51	-46	-40	-34	-28	-23	-17	-12	-6	-1	4	8	12	20	23	25	26	27	28	27	26	24	21	18	14	10	5	1	-4	-10	-15	28
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	96	96	96	96	96	96	96	96	96	95	95	95	95	95	95	95	95	95	N/A	N/A	N/A	
30-May	0458	0603	2024	2130	1240	0108	-69	-63	-57	-51	-46	-40	-34	-28	-23	-17	-12	-6	-1	4	8	12	20	23	25	26	27	28	27	26	24	21	18	14	10	5	1	-4	-10	-15	39
							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	96	96	96	96	96	96	96	96	96	95	95	95	95	95	95	95	95	95	N/A	N/A	N/A	
31-May	0457	0602	2025	2131	1345	0138	-69	-63	-57	-51	-46	-40	-34	-28	-23	-17	-12	-6	-1	4	8	12	20	23	25	26	27	28	27	26	24	21	18	14	10	5	1	-4	-10	-15	50
							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	96	96	96	96	96	96	96	96	96	95	95	95	95	95	95	95	95	95	N/A	N/A	N/A	

Parameters	Good	Marginal	Poor
ANGLE:	>30	0 - 30	<0
	>40	25 - 39	<25